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L1: (1799) Resonator same (VCO or (voltage adj controlled adj oscillator))

L2: (503401) (high adj frequency) or (high-frequency)

L3: (779) 1 and 2

L4: (88181) radar

L5: (90) 3 and 4

L6: (61) 5 and @ad-c="20030314"

L7: (1054) 342/175

L8: (4286) ((342/175) or (342/70-73) or (342/89-103)).CCLS.

L9: (2295) 8 and @ad-c="20030314"

L10: (12) (US-20010026195-S or US-20040041668-S).did. or (US-6714089-S or US-6

L11: (5) 10 and dielectric

Search

US-PGPUB;USPAT;USOCR

Default operator: OR

Highlight all hit terms entirely

342/175

342/70-73

342/89-103

Structured formCustom formBRS formISAR formHitsDetailsImageTextHTML

Document 1

Lessn-De

Pages

Title

Inventor

Current O/C

Search Terms

Total

USPAT

US-PGP

EPO

JPO

Derwa

1

342/100

98

2

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67

3

342/102

91

4

342/103

123

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760

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903

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386

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342/72

219

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342/73

47

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CAP NUM

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1799	Resonator same (VCO or (voltage adj controlled adj oscillator))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:15
L2	503401	(high adj frequency) or (high-frequency)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:15
L3	779	1 and 2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:15
L4	88181	radar	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:15
L5	90	3 and 4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:16
L6	61	5 and @ad<="20030314"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:32
L7	1054	342/175	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:29
L8	4286	((342/175) or (342/70-73) or (342/89-103)).CCLS.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/01/09 09:32

L9	2295	8 and @ad<="20030314"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:32
L10	12	(US-20010026195-\$ or US-20040041668-\$).did. or (US-6714089-\$ or US-6535072-\$ or US-6897735-\$ or US-6600381-\$ or US-6208214-\$ or US-5159346-\$ or US-5252981-\$).did. or (JP-2004282292-\$ or JP-2004138415-\$).did. or (EP-1458089-\$).did.	US-PGPUB; USPAT; JPO; DERWENT	OR	ON	2006/01/09 09:59
L11	5	10 and dielectric	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/09 09:59

## SEARCH NOTES FOR EAST AND IEEE AND INSPEC AND IP.COM

**SERIAL NUMBER**

10757591

### EAST SEARCH

EAST: search history attached

### IEEE SEARCH

Search terms:

**Resonator AND (VCO or (voltage AND controlled AND oscillator)) AND ((high adj frequency) or (high-frequency)) AND (radar or radio)**

1. "Analysis on resonator coupling and its application to CMOS quadrature VCO at 8 GHz", Donghyun Baek; et al, Radio Frequency Integrated Circuits (RFIC) Symposium, 2003 IEEE 8-10 June 2003 P(s): 85-88

2. "20 GHz integrated CMOS frequency sources with a quadrature VCO using transformers", Sangsoo Ko; et al, Radio Frequency Integrated Circuits (RFIC) Symposium, 2004. Digest of Papers. IEEE 6-8 June 2004 P(s): 269-272

### INSPEC SEARCH

Search history:

No.	Database	Search term	Info added since	Results	
1	INZZ	Resonator AND (VCO OR voltage AND controlled AND oscillator) AND (high ADJ frequency OR high-frequency) AND (radar OR radio)	unrestricted	5	

**Inspec - 1969 to date (INZZ)**

**20 GHz integrated CMOS frequency sources with a quadrature VCO using transformers.**

#### **Source**

2004 IEE *Radio Frequency* Integrated Circuits (RFIC) Systems. Digest of Papers (IEEE Cat. No.04CH37536), 2004, p. 269-72, 14 refs, pp. 720, ISBN: 0-7803-8333-8.

Publisher: IEEE, Piscataway, NJ, USA.

#### **Author affiliation**

Sangsoo Ko, Jeong-Geun Kim, Taeksang Song, Euisik Yoon, Songcheol Hong, Dept. of Electr. Eng. &

Comput. Sci., Korea Adv. Inst. of Sci. & Technol., Daejeon, South Korea.

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**Analysis on resonator coupling and its application to CMOS quadrature VCO at 8 GHz.**

**Source**

2003 IEEE *Radio Frequency* Integrated Circuits (RFIC) Symposium. Digest of Papers (Cat. No.03CH37410),

2003, p. 85-8, 8 refs, pp. xlii+727, ISBN: 0-7803-7694-3.

Publisher: IEEE, Piscataway, NJ, USA.

**Author affiliation**

Donghyun Baek, Taeksang Song, Sangsoo Ko, Euisik Yoon, Songcheol Hong, Dept. EECS, Korea Adv. Inst.

of Sci. & Technol., Daejeon, South Korea.

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**Investigation of new-mode-type SAWs by procedures combined with finite-element and analytical method, and their applications for devices used in mobile communications.**

**Source**

Electronics and Communications in Japan Part 2 (Electronics),

{Electron-Commun-Jpn-2-Electron-USA},

2001, vol. 84, no. 4, p. 49-58, 28 refs, CODEN: ECJEEJ, ISSN: 8756-663X.

Publisher: Scripta Technica, USA.

**Author affiliation**

Isobe, A., Hikita, M., Asai, K., Central Res. Lab., Hitachi Ltd., Kokubunji.

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**Design of a low-phase noise VCO for an analog cellular portable radio application.**

**Source**

Electronics and Communications in Japan Part 2 (Electronics),

{Electron-Commun-Jpn-2-Electron-USA},

March 1994, vol. 77, no. 3, p. 58-65, 15 refs, CODEN: ECJEEJ, ISSN: 8756-663X, USA.

**Author affiliation**

Owano, T., Ishizaki, T., Mater. & Components Res. Lab., Matsushita Electr. Ind. Co. Ltd., Kadoma, Japan.

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## IP.COM SEARCH

Search terms:

Resonator AND (VCO or (voltage AND controlled AND oscillator)) AND ((high adj frequency) or (high-frequency)) AND (radar or radio)

Result # 1      Relevance: ★★★★★

LOW NOISE VOLTAGE CONTROLLED OSCILLATOR (VCO) WITH CHIP COIL

2000-01-01

IPCOM000009692D

English (United States)

The proposal relates to an improved VCO circuit operating, for example, in the ultra high frequency (UHF) band. Such VCOs are used in radios where certain operating parameters are required (e.g., maximum phase noise -124 dBc in 1 Hz, frequency offset 25 kHz, ...